1)
$$372 = m_1 \cdot 5! + m_2 \cdot 4! + m_3 \cdot 3! + m_4 \cdot 2! + m_5 \cdot 4! + \Delta$$

 $372 = 120 m_1 + 24 m_2 + 6 m_3 + 2 m_4 + m_5 + 4$
 $371 = 120 m_1 + 24 m_2 + 6 m_3 + 2 m_4 + m_5$

371:120=3=m1 360
-11:24=0=m2
11:6=1=m3 -6
$5:2=2=m_4$
1:1=1=m5

				_		
10	2	3	4	5	6	m
4	1	2	3	5	6	$m_1 = 3$
4	1	12	3	5	6	$m_z = 0$
4	1	3	2	5	6	m3 = 1
4	1	3	6	2	5	$m_n = 2$
4	1	3	6	54	2	ms = 1
	•	٧	1			

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$$\frac{4320}{347:420=2} = m_2$$
 $\frac{240}{77:24=3} = m_3$
 $\frac{72}{5:6=0} = m_4$
 $\frac{5:2=2=m_5}{4}$
 $\frac{1:4=1=m_6}{4}$

4637:720=6=m,

1	2	3	143	5	6	7	m
7	1	2	3	14	5	6	1
7	3	11	2	4	5	6	m1: 6
7	3	5	1	2	4	6	$m_3=3$
7	3	5	1	2	4	6	m4= 0
7-	3	5	1	6	2	4	2
7	3	5	1	6	6	2	ms= 2
	2 (- 1		m6=1

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3))	40	55	12	3		
	1	2	3	4	5	6

14	5	6	m
3	5	6	mar 3
2	3	5	mz=4
1	2	3	m3=3
1	2	3	m4 = 0
1	3	12	mg= 1
	\frac{1}{3} \\ \frac{2}{1} \\ \frac{1}{1} \\	3 5 2 3	3 5 6 2 3 5 1 2 3

 $\pi = 3.5! + 4.4! + 3.3! + 9.2! + 1.1! + 1$ $\pi = 3.120 + 4.24 + 3.6 + 1+1$ $\pi = 360 + 36 + 18 + 2$ $\pi = 476$

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5) 68341275

,										
	10/	2	3	4	55	6 = 1	7	82)	m	A=571+6061+8-6+
	6	1	2	.3	h	5	7	8	$m_1 = 5$	17=5.7: +6.6! +2.5!+2.4!+
	6	2	1	2	3	4	5	7	m2 = 6	1 th 3 th 2
	0	8	3	1	2	h	5	7	100 = 7	7=5040,5+720+6+120-2+24-
	6	2	3	4	1	2	5	7	m3=2	71 2 1/2
	6	7	3	<u></u>	1	2	5	7	m5=0	
	2	8	12	1					11115	n=29810
	6	8	3	4	1	2	5	1-1	miss	
	6	0	3	b	1	1	17	1		

-1	2	31	33	3 1	4 5	4	52	5	6	Im
6	1	2	3	3	3	4	4	5	5	m1=9
6	3	1	2	3	3	. 4	4	5	5	m2: 2
6	3	4	1	2	3	3	4	5	5	m3 = 4
6	3	4	1	2	3	3	5	5	5	m4=0
8	3	4	1	2	3	3	4	5	5	$m_5 = 0$
6	3	4	1	2	51	3	3	4	5	me=3
6	3	4	1	2	5	3	3	4	5	m7=0
6	3	4	1	2	5	3	1	3	5	m8=1
6	2	2 4	1	2	5	3	3 4	3	\$ 5	mg=0
6	3	4	. 1	2	5	,	3 4	3	5	

$$\Pi = 3 \cdot P_{3,2,2}(9) + 2 \cdot P_{3,2,2}(8) + 4 \cdot P_{2,2,2}(7) + 0 \cdot P_{2,2}(6) + 0 \cdot P_{2,2}(5) + 3 \cdot P_{2,2}(4)$$

$$+ 0 \cdot P_{2}(3) + 1 \cdot P(2) + 0 \cdot P(4) + 1$$

$$\pi = 9. \frac{9!}{3! \cdot 2! \cdot 2!} + 2 \cdot \frac{8!}{3! \cdot 2! \cdot 2!} + 4 \cdot \frac{7!}{2! \cdot 2! \cdot 2!} + 3 \cdot \frac{4!}{2! \cdot 2!} + 1$$

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1	1	1	2	2	2	3	3	5	5	6	7	m
7	1.	1	1	2	2	2	3	3	5	5	6	m1-11
7	3	1	1	1.1	2	2	2	3	5	5	6	m1=6
7	3	5	1	1	1	2	2	2	- 3	5	6	$m_3 = 7$
7	3	5	2	11	1	1	2	2	3	5	6	$m_4 = 3$
7	3	5	2	2	1	1	1	3	1 2	5	6	
7	3	5	2	2	1	1	M	1		3 5	6	
7	3	5	2	2	1	5	1	-	-		/	1116-0
7	3	5	2		-	5	1		1	1 2	K	2 my=4
7	3	1	2	17	1	-	2	5	6	,		m1=3
7	3	5	2	2		1			6		1 2	- m=3
7	12	15	1	2	=		-	3		14	1	1 m10=0
7	13		2		1	1			6	1	1 1	2/m71=0
+	3	5	2	- 2	_ ′	1	5	3	6	1	1	2

$$T = 11 \cdot P_{3,3,2,2}(11) + 6 \cdot P_{3,3,2,2}(10) + 7 \cdot P_{3,3,1}(9) + 3 \cdot P_{3,3}(8) + 3 \cdot P_{3,2}(7) + 9 \cdot P_{3}(6)$$

$$+ 4 \cdot P_{2}(5) + 3 \cdot P_{2}(4) + 3 \cdot P_{2}(3) + 9 \cdot P_{2}(2) + 9 \cdot P_{1}(3) + 1$$

$$T = 11 \cdot \frac{11!}{3! \cdot 3! \cdot 2! \cdot 2!} + 6 \cdot \frac{10!}{3! \cdot 3! \cdot 2! \cdot 2!} + 7 \cdot \frac{9!}{3! \cdot 3! \cdot 2!} + 3 \cdot \frac{8!}{3! \cdot 3! \cdot 2!} + 3 \cdot \frac{7!}{3! \cdot 3! \cdot 2!}$$

$$+4 \cdot \frac{5!}{2!} + 3 \cdot \frac{4!}{2!} + 3 \cdot \frac{3!}{2!} + 1$$

$$7 = 11 \cdot \frac{33316400}{144} + 6 \cdot \frac{3628200}{144} + 7 \cdot \frac{362880}{72} + 3 \cdot \frac{60320}{36} + 3 \cdot \frac{5040}{18} + 1 \cdot \frac{120}{2} + 3 \cdot \frac{24}{2} + 3 \cdot \frac{6}{2} + 1$$

7=11,27+200+6.25100+7.5040+3.1120+3.260+4.60+3.12

77=3069200+151200+36280+3360+840+240+36

10.
$$N=5$$
 $N=3$ $N=5$ $N=2$
 $C_5^3 \cdot C_5^2 = \frac{5!}{3! \cdot (5-3)!} \cdot \frac{5!}{2! \cdot (5-2)!} = \frac{5 \cdot \cancel{4} \cdot \cancel{3}!}{\cancel{2}! \cdot \cancel{2}!} = \frac{5 \cdot \cancel{4} \cdot \cancel{3}!}{\cancel{2}! \cdot \cancel{3}!} = 20.20 = \frac{400}{2! \cdot \cancel{3}!}$

$$\sqrt{\frac{30}{7}} = \frac{30!}{(30-7)!} = \frac{30!}{23!} = \frac{30.29.78.27.26.25.24.23!}{23!} = 7980336000$$

b) N=30 K=30

$$\sqrt{\frac{30}{30}} = \frac{30!}{(30-30)!} = \frac{30!}{0!} = \frac{30!}{10!} = \frac{30!}{10$$

$$V_3^{42} = \frac{42!}{142-31!} = \frac{42!}{39!} = \frac{42.41.40.35!}{39!} = 70560 - meingra$$

$$V_{4}^{2} = \frac{4!}{(4-2)!} = \frac{4!}{2!} = \frac{24}{2} = 12$$

$$V_{4}^{2} = \frac{4!}{(4-2)!} = \frac{24}{2} = 12$$

$$V_{4}^{2} = \frac{4!}{(4-2)!} = \frac{24}{2} = 12$$

$$\sqrt{\frac{3}{3}} = \frac{3!}{2!} = \frac{6}{2} = 3$$
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$$V_6^{15} = \frac{15!}{(15-6)!} = \frac{15!}{9!} = \frac{15.14.13.12.11.10.9!}{9!} = 3603600$$

7. 2-Shiphore:
$$V_2 = 2^2 = 4 \Rightarrow \begin{cases} 1 < 1 \\ 1 < 2 \end{cases}$$

3-Shiftone:
$$\sqrt{2}=2^3=8=$$
)
$$\begin{cases} 1 < \frac{1}{2} < \frac$$

$$V_3^{12} = 3^{12} = 531441$$

$$\frac{1}{\sqrt{3}} = 10^{3} - 1 = 1000 - 1 = 999$$

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$$C_5^3 = \frac{5!}{3!(5-3)!} = \frac{5!}{3! \cdot 2!} = \frac{5 \cdot \cancel{4} \cdot \cancel{3}!}{3! \cdot 2!} = 10$$

$$= \frac{20!}{15!} \cdot \frac{16!}{15!} + \frac{20!}{2! \cdot 16!} \cdot \frac{16!}{2! \cdot 16!} + \frac{20!}{3! \cdot 17!} \cdot \frac{16!}{3! \cdot 13!} + \frac{16!}{4! \cdot 12!} = \frac{20 \cdot 19!}{15!} \cdot \frac{16!}{15!} + \frac{16!}{15!} = \frac{16!}{15!$$

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